


**Process for preparing an alpha-olefin polymer.**

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**Abstract**

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A highly effective catalyst system for the polymerisation of 1-olefins comprises an aluminoxane and a metallocene which is a compound of the formula I  in which R<1> and R<2> are hydrogen atoms, halogen atoms or hydrocarbon radicals, and R<3> and R<4> are monocyclic or polycyclic hydrocarbon radicals which can form a sandwich structure together with the central atom and which are connected to one another through a single- or multimembered, heteroatom-containing bridge -R<6>m-R<5>-R<7>n-. The catalyst system gives polymers of very high molecular weight and excellent grain morphology.

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